

Application Serial No. 10/573,536
Reply to office action of December 11, 2008

PATENT
Docket: CU-4748

REMARKS/ARGUMENTS

Reconsideration is respectfully requested.

Claims 1-31 are pending before this amendment. By the present amendment, claims 1-31 are canceled without prejudice; and new claims 32-67 are added.

In the office action (page 2), claims 18-31 stand rejected under 35 U.S.C. §101 as being directed to non-statutory subject matter. In the office action (page 3), claim 6 stands rejected under 35 U.S.C. §112, ¶2 as being indefinite. In the office action (page 4), claims 1-14, 16-29 and 31 stand rejected under 35 U.S.C. §102(e) as being anticipated by U.S. Publication No. 2004/0220926 (Lamkin). The "et al." suffix is omitted in a reference name. Also, in the office action (page 11), claims 15 and 30 stand rejected under 35 U.S.C. §103(a) as being obvious over Lamkin in view of U.S. Patent No. 7,055,168 (Errico). The "et al." suffix is omitted in a reference name. These above rejections are moot since claims 1-31 have been canceled.

The applicants have added new claims 32-67 to clarify the presently claimed invention for overcoming the applied references and especially Lamkin.

The present invention relates to a package metadata and content service providing system that applies Digital Item Declaration (DID) of a Moving Picture Experts Group (MPEG) 21 to television (TV)-Anytime service. (specification page 1, lines 6-11). More particularly, the present invention provides package metadata for a targeting and synchronization service that can provide a **variety of contents formed of components to diverse terminals in the form of a package** in a content service providing system. This package metadata includes package description information for selecting a package desired by a user and describing general information on an individual package

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to check whether the selected package can be acquired, and container metadata for describing information on a container which is a combination of diverse packages and formed of a set of items, each of which is a combination of components for each of the respective diverse terminals requesting the content formed of components (specification at page 4, lines 5-19). That is, the content service providing system **analyzes** inputted package metadata **containing a variety of terminals and user conditions from a plurality of diverse terminals and determines** a content or a component that is **matched** with the input conditions requested by each of the plurality of diverse terminals. Thus, the content or component is selected **appropriately** for the input conditions of the respective diverse terminal that may be only one or may be a plurality of packages having the components or content for the respective diverse terminal (specification at page 8, lines 21-27). Accordingly, the package metadata of the at least one package of the components from the synchronizing the contents requested by each of the diverse terminals are formed without having to analyze the metadata for determining if the component and content matches the service request condition of the respective terminal.

In order to clarify this aspect of the invention, claim 1 now recites inter alia:

--an **analyzing** unit for analyzing conditions of a usage environment of a user terminal based on package metadata and **determining** contents matched with the conditions; and

a providing unit for providing the **determined** contents to the user terminal,

wherein the package metadata includes component metadata for describing attributes of the contents, relation metadata for describing temporal/spatial relation of the contents, and targeting condition metadata for describing the conditions,

wherein the package metadata is capable of **matching** the contents to the user terminal and consuming a variety of contents with the temporal/spatial relation in the user terminal-- **[emphasis added]**.

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Nowhere in Lamkin teaches or discloses the presently claimed invention of claim

1. Support for the limitations added to claim 1 can be found at least on at page 7, line 23 to page 9, line 26 and FIG. 3.

In contrast, Lamkin receives a **"request"** for content from a **"terminal"**, **"searches"** for a plurality of entities associated therewith from the request, **"collects"** the plurality of entities and collection metadata, and then eventually downloading the respective entities that meet the criteria of the request from the respective terminal in response to the received request from the terminal. Contrarily, the present invention **analyzes** the conditions of a usage environment of the user terminal based on the package metadata and **determines** the contents matched with the conditions to **match** the contents to the user terminal. Accordingly, claim 1 of the presently claimed invention is completely different than Lamkin, because the present invention does not require the request, search, and collect processes as disclosed in Lamkin.

Further, Lamkin teaches away from claim 1 of the presently claimed invention of **analyzing** the conditions of a usage environment of the user terminal based on the package metadata and **determines** the contents matched with the conditions to **match** the contents to the user terminal without any request, search, and collect processes, because Lamkin would not work if there were no request, search, and collect processes as required in Lamkin.

Furthermore, nowhere in Lamkin teaches or discloses the limitations of claim 1, which recites inter alia: --wherein the package metadata includes component metadata for describing attributes of the contents, relation metadata for describing temporal/spatial relation of the contents, and targeting condition metadata for describing

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the conditions—. That is, Lamkin fails to teach, disclose, or mention the relation metadata for describing temporal/spatial relation of the contents, especially the spatial relation. Contrarily, Lamkin **only** discloses timeline of the entities (Lamkin [0376]). However, claim 1 of the presently claimed invention uses the package metadata, which **includes the relation metadata** to consume a variety of contents with the temporal/spatial relation in the user terminal.

In contradistinction to Lamkin, the present invention discloses apply Moving Picture Experts Group (MPEG)-21 Digital Item Declaration (DID) to television (TV)-Anytime service **effectively by discriminating constitutional elements from packages**, specifying temporal, spatial, and interactive relation between the constitutional elements, specifying conditions of metadata describing an environment used for a content providing service system, and providing concrete metadata describing each constitutional element to a respective terminal in response to request for content from a content service provider from each of the respective terminal (specification at page 26, line 10 to page 29, lines 38 and FIG. 7). That is, the present invention analyzes the conditions of a usage environment of the user terminal based on the package metadata and determines the contents matched with the conditions to match the contents to the user terminal. As a result, the present invention provides package metadata for a content service providing system, wherein the package metadata includes the relation metadata to consume a variety of contents with the temporal/spatial relation in the user terminal. In addition, the present invention provides a content service providing system effectively in an MPEG environment by utilizing MPEG-21 DID and embodying the package metadata.

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Accordingly, nowhere in Lamkin teaches or disclose the features of claim 1 of the presently claimed invention. Also, Lamkin teaches away from the limitations of claim 1 of the presently claimed invention of analyzing the conditions of a usage environment of the user terminal based on the package metadata, because Lamkin **must** receive a **"request"** for content from a **"terminal"**, then **"search"** for a plurality of entities associated therewith from the request, and finally **"collect"** the plurality of entities and collection metadata before analyzing the condition of the usage environment of the user terminal from the packaged metadata. Therefore, an indication of allowable subject matter with respect to claim 1 is respectfully requested.

As to claims 33-49, the applicants respectfully submit that these claims are allowable at least since they depend from claim 32, which is now considered to be in condition for allowance for the reasons above.

As to independent claim 50, Independent claim 50 recites similar features to those found in claim 32. Therefore, for reasons analogous to those argued above with respect to claim 32, claim 50 is patentable over the applied references.

As to claims 51-67, the applicants respectfully submit that these claims are allowable at least since they depend from claim 50, which is now considered to be in condition for allowance for the reasons above for claim 32.

For the reasons set forth above, the applicants respectfully submit that claims 32-67, now pending in this application, are in condition for allowance over the cited references. Accordingly, the applicants respectfully request reconsideration and withdrawal of the outstanding rejections and earnestly solicit an indication of allowable subject matter.


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This amendment is considered to be responsive to all points raised in the office action. Should the examiner have any remaining questions or concerns, the examiner is encouraged to contact the undersigned attorney by telephone to expeditiously resolve such concerns.

Respectfully submitted,

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